

Atmosphere Group Ancillary Data Issues

Have we identified all the data sets we need for V2?

Surface emissivity map? ~ **BRYAN**

Surface albedo map?

DAO data (HDFEOS Format)

Do we know we have access to them in the processing environment?

Do we have all the tools we need to use the data?

Unpacking (GRIB format issue) ✓

Reading ✓

Collocation ✓

Interpolation (time and space) ✓

Visualization

Do we feel confident in the scientific quality of the data sets?

DAO data?

ARCHIVE

LOCATION OF LAND/SEA MASK

Ancillary Data for MODIS Operational Processing

Ž Many different ancillary data types will be used as input to UW production software

Ž Which data sets do we have the least experience with?

Ž Must learn more about the strengths and weaknesses of DAO data. Will remove one more unknown from the host of unknowns at launch.

Ž How can we learn more about the scientific quality of the data sets?

1) Compare with data sets we are more familiar with (i.e. NMC)
Some documentation does exist. Not always clear how affects end product (Bryan?)

2) Compare results of products using historical ancillary data versus new data type.

Ž Goal - Determine the scientific quality of the DAO data.

Ž Method: Run HIRS global operational cloud top properties product software using DAO temperature and moisture profiles as inputs in parallel with current processing. Determine the quality of the final product and the cause of any differences.

Ž Status: Working with David Lamich of DAO staff who provided me with:

Access to daily real-time DAO requested products

Surface pressure
Surface temperature
Temperature Profile at **13** Levels
Moisture Profile at **13** Levels

Binary format, 2.5 x 2.0 degree grid available on ftp site to hers.gsfc.nasa.gov

In the process of converting the files to McIDAS format for parallel processing. Should have some initial conclusions by end of the year.